

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: JayMiller@aol.com
Subject: [6970] "Ham Radio & More", April 21, 1996 / 2206 UTC
Message-ID: <960411120112_511157478@mail04>

Dear Fellow QRP Enthusists,

It has come to my attention that the Show "Ham Radio & More" scheduled for April 21, 1996, the subject: "QRP" @ 2206 UTC on 7,435 KHz (AM) WWCR (100 KW) & 12,160 KHz (AM), plus 30+ other local market radio affiliates, that NA5N, AB7PF (Air Mobile) & KC70MT (Air Mobile) will be Len's (KB7LPW) guests. AB7PF & KC70MT will be in the Studio (Phoenix, Az.), with Len, and Paul, NA5N will be on the land line, from Socorro, NM. If You have specific questions about Len's Show, contact Len (KB7LPW) direct as lenwink@indirect.com, via the internet. Remember, Len's Show is 2 hours, but all You will hear is 1 hour, on the shortwave frequencies.

I would like to suggest/encourage those sites, who are participating in the "NorCal QRP To The Field", on April 27th, to call in & talk about where they will be, especially the more unusual sites. (KU7Y, any luck yet ???)

BTW, AB7PF/Air Mobile & Crew will have some very nice looking certificates. If You have specific questions about the Air Mobile Operation (HF/VHF/UHF), on April 27th, contact Steve, AB7PF (kj7dn@primenet.com).

Also, You might want to listen to "Newsline". You may hear something about this event there too. (Muchos Gracious Senor Bill).

OK, who is going to FDIM ? (Dayton)

T-minus 15 days... 72...Jay, WA5WHN/qrp

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>
Subject: [6976] 20M-OPEN LATE TO SERVE YOU
Message-ID: <9603118292.AA829251793@smtpgw.ccgate.dl.nec.com>

Gang:

I've noticed 20 staying open to about 9pm
local time every night for a week (except

Wednesday). With the R5 and abt 2 watts out of my MFJ-9020, I've been getting many good reports.

Last nite, worked into Searsport, ME at abt 9:15pm. He gave me a 559, him same. Tried a F05 (him 449), but no joy.

I'll be scouting around 20 now thru the end of summer. Still looking for some takers on some 10m QSO's. Anybody local in D/FW want to try 28.060 or 28.110 some early evening? I want to see if the R5 works on 10!

73 de Dave AC5GY

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: "Kenneth C. Lotts" <aa7jc@aa7jc.ampr.org>
Subject: [6951] 40-9er
Message-ID: <Pine.LNX.3.91.960410181009.11594A-100000@svaip.fhu.primenet.com>

Here is some 40-9er <sp?> trivia.. How many ways has it been spelled on this list ;-)

Well.. Since I built a procmail mail-filter to archive 40-9er messages.. I found out

;-)

40-9'er
40-9er
49-er
49er
49r
Forty-9er
fourty-9er

72 de Ken

Ken Lotts Sierra Vista, AZ
aa7jc@aa7jc.ampr.org
klotts@primenet.com

<http://www.primenet.com/~klotts>
(voice/fax: 520 459-2035)
(BBS: 520 459-4269)
POWDERMILK BISCUITS
Heavens, they're tasty and expeditious!

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [6974] ?light /P PSU
Message-ID: <199604111816.SAA17219@mail.enterprise.net>

Hello all and thanks for reading this.
I like to take my MFJ9420 SSB rig on holidays and wonder if anyone
can suggest a small, but LIGHT unit to power the rig. Gel cells are
too heavy. The MFJ /P PSU/Nicad unit is not made for our 240 V AC
mains supply <could it be modded?>. It's a problem. Such a nice small rig and
light too,
pity to have to lug a heavy PSU round with it. Fancy taking it to VK
next year when I hope to be VK5GCC again.
Regards to all.

73

Frank G3YCC G QRP 042

QRP Web Page: <http://homepages.enterprise.net/g3ycc/>

Packet: G3YCC@GB7HUL.#15.GBR.EU

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: "JOHN F. McCLUN" <JFM001@DENTAL3.AB.UMD.EDU>
Subject: [6954] AB7PF/AM
Message-ID: <199604111135.HAA15926@comm1.ab.umd.edu>

Steve -

The drugs the doctor gave you work a lot better IF you give them
time to work. If you'll send me a free sample though, I will be willing
to try flying at 10000 ft sans plane and doing a QSO. :)'

John N3REY
Always QRP!

PS - Enjoyed it, really.

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: cooper@gmpvt.com (Tom Cooper)
Subject: [6978] Argo 509 modifications
Message-ID: <199604111817.OAA17269@web.gmpvt.com>

Greetings from VT!

Thanks to KB8N, I now am using a really nice Argo 509, like the one I had 15 years ago. After an alignment, everything works, but I wonder if there some modifications to improve the following:

1. Audio distortion on strong signals/not much GC in the AGC. Strong signals clip and buzz, which isn't pleasant, and my ears get whammed, which is worse.
2. The QSK is quite thumpy, especially on the first dit/dah.

For what it's worth, the OHR switched cap filter works wonderful with the Argo, outboard.

Tom WA1GUV
cooper@gmpvt.com

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: cjsterl@ix.netcom.com (Craig J. Sterling)
Subject: [6956] Beacon & 40 Meter Conditions
Message-ID: <199604111203.FAA24595@dfw-ix3.ix.netcom.com>

Gang,

40 Meters has been in bad shape lately at this QTH ... QRM from foreign Broadcast stations and digital folks. In spite of what I would call poor condx managed to work a SV6 (Takis) nr Athens on the TAC 1 with 3 watts. He heard me much better than I copied him. Me 539, he 339.

Just this morning copied AK0B's beacon 250MW, code word "CHAP" on 7.033 559, loud and clear! What goes? Without the digital guys and the European broadcasters, even under marginal propagation, 40m is great ..it's THE band. Now, forgive me cause I've only been a ham for 1 year, but are we loosing 40m?

Sure makes a good case for 30, doesn't it Chuck!

Just venting,
Craig Sterling, AA3MD
Washington, D.C.

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996

From: cjsterl@ix.netcom.com (Craig J. Sterling)
Subject: [6980] CODE WORDS
Message-ID: <199604111854.LAA16962@dfw-ix8.ix.netcom.com>

Gang et al,

Sooooooooooooo abt the code word slip! Didn't really consider the integrity issue or recall the post "not to disclose" the "C WORD".

What a jerk!!!!!!!

Craig, AA3MD

From owner-qrp-l@lehigh.edu Thu Apr 11 23:28:55 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [6967] DDS question and where to get parts?
Message-ID: <316d1c08.pandora@pandora.lugs.org.sg>

Hi Gang,

I managed to get hold of the DigiBrain article and the DigiVFO part of it looks close to what I want in the first place. Too bad I did not get to see it before I started this whole ruckus. Now I have some questions and would appreciate if anyone could help me solve this:-

1. Where can I get the HARRIS HSP45102 DDS and the CA3338 DAC? How much do these cost?
2. There was a good question raised by someone earlier (sorry cannot remember who) who asked if it would help on the spurs output if the 8-bit DAC was replaced with a high-speed 12-bit DAC part, thereby (hopefully) giving greater resolution on the output, and consequently less spurs?
3. Where can I get info on how to program the DDS?
4. Would it help to have a 1:1 PLL strapped to the output of the DDS to filter out spurs? How much? Especially if a 12-bit DAC is used, will the improvement from a PLL justify the extra complexity involved?
5. I hear the DDS is a power hog? Just how hungry is this part?

I am really keen on giving this VFO a shot before trying other avenues but the primary problem is the availability of the HSP part from around here?

Who carries them? Thanks in advance (and please someone respond before I die of eagerness!) :-)

73 de 9V1ZV Daniel

--

Daniel Wee | daniel@pandora.lugs.org.sg
9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Jim.Nestor@ey.com
Subject: [6949] e-mail address for WB8VGE
Message-ID: <00145000027723730000004*@MHS>

Does anybody have a current e-mail address for Mike Bryce, WB8VGE? I used to have one on Compuserve, but think he has a new one. Thanks,

Jim, WK8G/2
jim.nestor@ey.com

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: penc@elan.mrwo.mcgill.ca
Subject: [6961] Elusive Altoids- Canada
Message-ID: <9604111335.AA03135@elan.mrwo.mcgill.ca>

Gang:

I know a few of you live in Canada so here goes it.

Does anyone have any suggestions as to where I may possibly find Altoids? I went on a couple Altoids excursions around Montreal, and failed to turn up a single box yet. Tried drug stores, yuppie candy and food boutiques, all the grocery stores, Wal Mart, etc. About the only place I didn't yet get to was Jean Coutu. I'd like to try to find these things locally (in case either I or the wife gets hooked on them). Also looked at "home" (Utica, NY area). None there either.

Tnx
Rich WK2A/VE2
penc@radar.mcgill.ca

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Dick G0BPS <Dick@dick.demon.co.uk>
Subject: [6965] EZNEC update
Message-ID: <feDG8AADWgaxEwug@Dick>

In message <960409122202_187645653@emout10.mail.aol.com>,
KFGlynn@aol.com writes

>Hello gang,

>

>Is anyone using EZNEC ant. modeling software? I'd appreciate any comments on
>it's effectiveness. Is there shareware available?

Hi there, I have used it and found it excellent.
It is not shareware and only available from Roy W7EL

TTFN ...

Dick G0BPS / G0R00
Kanga Products
<http://ukinternet.com/ham/kanga>

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Jerry <jfelts@rapidcity.com>
Subject: [6962] FS MFJ9020
Message-ID: <199604111345.HAA03752@host1.rapidcity.com>

For Sale MFJ9020 in excellant condition for \$95 includes shipping. I don't
use it and maybe someone could put it to use. How about it?

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Bob Hirsch <bobh@p3.net>
Subject: [6986] heath parts
Message-ID: <1.5.4.32.19960411214410.0068a70c@p3.net>

Steve,

Regarding the tuning cap for the HW-8, the ARRL 1996 Amateur RadioMail Order
Catalog and Resource Directory lists

VCR Clinic and Electronic Service
Ed Daignault, WA1LJY
1996 Mars Road

Stevensville, MI 49127
616 422 1110

It says "Call for any Heath repair". Maybe it means only VCR type stuff but like I said it's in the Amateur Radio Guide and he IS a ham. Worth a call????

=====
73 es CUL de KE30B

Bob Hirsch
bobh@p3.net
qrp-arc #8700
qrp-l #450
ARRL
=====

From owner-qrp-l@lehigh.edu Thu Apr 11 23:28:55 1996
From: brian.carling@acenet.com (Brian Carling)
Subject: [6988] HELLO!
Message-ID: <2a6.80155.500@acenet.com>

Some of you are probably wondering:
"What on earth has happened to Brian?"

"I sent him e-mail but he doesn't reply!"

Well, the fact is that INTERNET has been in TERRIBLE shape for the past few weeks, and VERY LITTLE e-mail is even getting through to me at EITHER my old address or at my new one!

SO If you want to get in touch, I would suggest sending everything twice and maybe even CC: is to both of my addresses.

SOrry for the mix up, but I believe the problem is endemic to an over-loaded INTERNET system now. It is beyond being JUST the fault of ACENET or PSI Net (Pipeline)...

Please keep trying - I would love to hear back from you some more.

Your friend - Bry (Brian Carling)

From: brian.carling@acenet.com

"mail sometimes bounces here, please resend if needed!"

OR - Please reply to me at my NEW e-mail address:
bry2@usa.pipeline.com

* SLMR 2.1a * No, Taco Bell is NOT the mexican telephone company!

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Larry East <LVE1@inel.gov>
Subject: [6987] Later version of HAMCALC
Message-ID: <2.2.16.19960411220203.09270b86@134.20.32.17>

I just discovered that there is a later version of HAMCALC on
oak.oakland.edu (see my posting of yesterday -- don't ask me for a copy 'cuz
I deleted it!).

To obtain it, download the following two files:

/pub3/hamradio/arrl/bbs/programs/hcal-15.txt -- instructions (about 1K)
/pub3/hamradio/arrl/bbs/programs/hcal-15.zip -- programs (about 600K)

Very confusing to have different versions of the same program in different
directories at the same FTP site! Oh well...

72, Larry W1HUE/7

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: KR4GL@aol.com
Subject: [6975] Monrovia, Liberia
Message-ID: <960411130832_269426005@emout07.mail.aol.com>

Had my Alinco DX-70 in the car last night and found on 20 meters SSB a
station obviously on the other side of Monrovia from the U.S. embassy,
talking to his friend over here in the States.

He said he couldn't get to the embassy because of the commotion, but he felt
confident he either could today or Friday, or the military would come and get
him and he could fly out to Senegal.

Talk about immediacy. Made the hair on the back of my neck stand on end.

72 de KR4GL
John Foote

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Arthur Moe <kb7ww@aracnet.com>
Subject: [6953] NorCal
Message-ID: <199604111056.DAA07673@trapdoor.aracnet.com>

I would like to join NorCal could someone please send info.

Thanks
73s
art

AT THE END OF THE OREGON TRAIL

Arthur Moe
A.R.S. KB7WW
QTH: Oregon City, Or.

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: cjsterl@ix.netcom.com (Craig J. Sterling)
Subject: [6955] Powerline interference
Message-ID: <199604111147.EAA17858@dfw-ix6.ix.netcom.com>

Gang in Washington, D.C. area,

Good news! Anyone being served by PEPCO in the D.C. area that experiences line noise has a possible solution. Contact Mike Martin, PEPCO's Radio & Television Interference Investigator. Mike's direct dial telephone number is 301-967-5230.

I have been experiencing horrible line noise at my QTH for some time now. My noise blander on my "big rig" handles the problem well, but since operating QRP rigs without noise blanking circuits, the noise has driven me wild! In the rain the noise went away, so it was obvious there was something amiss. Took out the trusty Sony all-band and it was all over the neighborhood. A line-man gave me Mike's name and number and after finally getting him out to the QTH, identified the problem poles and fixed it! Now.....NO NOISE!

PEPCO wants to fix your line noise problems, Mike Martin is the guy to call him. Our calls keep him employed!

Good luck,
Craig Sterling, AA3MD
Washington, D.C.

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Brien Pepperdine <pepperb@gov.on.ca>
Subject: [6959] QRP in the Field - SITE notice
Message-ID: <Pine.OSF.3.90.960410203507.22861A-100000@govonca2.gov.on.ca>

I am passing on this info for the following club-
Given the thread of historical operations....

The Durham Region QRP Club (Metro Toronto area) will be doing QRP in the Field on April 27 at:

The site of CAMP "X" - this is the site (bunkers are buried and it is now a baseball diamond, sadly) of the WWII covert operations training site mentioned in William Stevenson's "A Man Called Intrepid". Basically this was a the place where spy types, sabateurs, assassins (!) and all those fun occupations of wartime were trained. Excuse me if I have made the place sound simplistic, but it was a very important site, and there is a plaque there. I am told there was very large radio transmitter there for passing of wartime info, and is where the assassination of Herr Henrich was planned (that's what I am told). I'm told submarines surfaced near the Lake Ontario shore, and let off and picked up the covert operators. Interesting.

Near Oshawa. Ontario. Light standards at the ball diamond will do the antenna holding.

So, listen for VE3QDR from Camp X - operators will be Jim, VE3KQN, Gary, VE3REP, and perhaps John, VA3JE; maybe more as April goes on.

Brien
Toronto

pepperb@gov.on.ca

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [6973] Slipping keys, answers
Message-ID: <199604111816.SAA17229@mail.enterprise.net>

When I was employed in a hospital lab., until 6 years ago, we used a plastic type sheet to put under apparatus to stop it moving. I can't remember it's name, but I'm sure you could enquire locally. Also, my son, who is at sea most of the time, visiting such exotic paradise places as the Falklands, Bosnia etc (!) tells me they have place mats to use under their plates etc at meal times, which prevent your fish and chips being deposited on the person next door, when the vessel rolls.

Useful?

Cheers for now.

73

Frank G3YCC G QRP 042

QRP Web Page: <http://homepages.enterprise.net/g3ycc/>

Packet: G3YCC@GB7HUL.#15.GBR.EU

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: dolsonj@ix.netcom.com (James Dolson)
Subject: [6989] Small Keyers w/Curtis Chip
Message-ID: <199604112307.QAA25947@dfw-ix12.ix.netcom.com>

Just spoke with Whiterook Products Co. to order their MK-22 mini-key (after hearing about them from N9UXU). I learned that they don't take plastic, but I also learned that they have a paddle with a Curtis chip built in. It is the MK-88, is 3" x 2" x 1" and sells for \$59.95. Their address is:

Whiterook Products Co.
309 S. Brookshire Ave
Ventura, CA 93003
(805)339-0702

(I have no financial relationship with Whiterook, just looking for a small key).

Jim
WB8ZBD

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: BillCombs@aol.com
Subject: [6984] Soldering Iron
Message-ID: <960411171234_511394057@mail02.mail.aol.com>

I am trying to find a high wattage soldering iron but no luck. I understand that it is recommended that one use an iron of more than 100 watts to solder the shield on a PL-259. The local hardware, Home Depot, etc. have an 80 watt. Even it is \$32. I hate to think what a higher wattage would cost if I could find one. Any suggestions.

Bill K4CPK

BillCombs@aol.com

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Doug Hendricks <ki6ds@telis.org>
Subject: [6952] St. Louis Tuner Kits Now Shipping
Message-ID: <316C9BAB.F29@telis.org>

The long awaited day is here. The St. Louis Tuner kits started shipping today. I will ship about 2 dozen per day hopefully. It takes 4 hours to kit that many, prepare them for shipping etc. I will update the list daily as to where I am at with shipping. Tonight I was able to get to kit number 56, and those will go out for sure tomorrow. Many thanks to the St. Louis Club for the rights to do the kits. NorCal will not be doing any more of these. The rights belong to the St. Louis Club, including the manual, which Dave Gauding, Randy Miller and I co-authored. I have given full rights to my part of the manual to the St. Louis Club. The St. Louis Tuner was developed by the St. Louis QRP Society over a 4 year period. They graciously allowed NorCal to kit 275 kits in order to make it available to the QRP community. We kept the tuner as original as possible, only changing the case, and the variable capacitors. To my knowledge, this is the first time that two QRP Clubs have coordinated efforts to produce a kit. Hopefully their will be more in the future.

Also, if anyone would like to talk about club kits and would like to ask questions about such a venture, I am happy to help any way that I can. Chuck offered his two kits to NorCal, and I really hated to turn them down as I think they are quality products, but we have just too much going now to take on anything else. Oh, one other thing, \$1000 is the bare minimum to get started producing kits. I would say more like \$5000. That is what it took to get NorCal into producing their kits.

Chuck has also helped us to locate a source for crystals. I will post to the net the availability when it happens. 72, Doug, KI6DS

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: jsbraun@vivanet.com
Subject: [6981] Ten Tec Argo 556 has been sold....
Message-ID: <9604111512.aa23026@vivanet.vivanet.com>

Thank for the interest, but the Ten Tec Argo 556 has been sold, just waiting for the check.

Scott
KB2GWF

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: penc@elan.mrwo.mcgill.ca
Subject: [6979] Tnx/Altoids
Message-ID: <9604111851.AA05631@elan.mrwo.mcgill.ca>

Thanks to those who responded to my request for info on locating the elusive altoid. Apparently a department store about 1.5 mi (about 2 km) from our place stocks 'em. I'll give it a try first. Else I can get them at a drugstore back in our US home.

Looking forward to trying some curiously strong mints (not to mention building a real "mint" radio.

de Rich WK2A/VE2

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: hx445@cleveland.freenet.edu (Christopher R. Doherty)
Subject: [6948] upgrade
Message-ID: <199604110259.WAA15056@owl.INS.CWRU.Edu>

Well, I decided that tonight was going to be the "take the general exam and 13 wpm code test" night. So, I found myself at the exam site and my buddies said to me, "Before you take the 13 take the 20. You never know, you just might copy enough to pass. And what have you to lose?" So, I took the test - and passed! Then came the written exam and I passed that also. Yes!

What a high - new way to sign - "de N3UVR/AG."

So, when the next fox hunt comes around, I'll just have to pay more attention. See ya at Dayton.

--

73 de N3UVR/qrp name hr chris es Internet: doherty@scranton.com
qth 715 Monroe Ave. Scranton, PA 18510 hx445@cleveland.freenet.edu

From owner-qrp-l@lehigh.edu Thu Apr 11 23:28:55 1996
From: larry@wscc.com
Subject: [6972] Why join a QRP club?
Message-ID: <439B3AF0DF4@wsccnov.wscc.com>

Whether anyone joins any organization should be up to the individual and her/his own needs/interests.

I belong to several QRP organizations and enjoy their publications, especially on those occasions when on the air operation is impossible, such as on commercial airplanes and in restrooms.

As for QRPARCI, I've been a very satisfied member for several years (#6223) and have ZERO complaints. One time my QQ was missing pages, but a polite request got an immediate replacement. NO organization, volunteer or professional, is perfect. ALL have some years better than others. And what is QRP-L but a close-to-real-time QRP publication?

"El respecto al derecho ajeno es la paz." -Benito Juarez

72,
Larry

From owner-qrp-l@lehigh.edu Thu Apr 11 23:28:55 1996
From: moyle@essc.psu.edu (Alfred M. Moyle)
Subject: [6958] Re: 40-9er harmonics
Message-ID: <9604111300.AA29168@seismic.geosc.psu.edu>

>John, and other 40-9er fans:

>

>Using my 40-9er (Board A) I measured 15 dB of second harmonic

>suppression the first time I tested it, and 16 dB the second time I tried
>it. Both times, the analysis was performed on a Motorola R-2000
>Communications Analyzer. My results varied by some 10 dB with John's post
>reported today on the list. I hope my measurements were wrong -- because
>I'd like to think that the rig has better suppression than I was able to
>find. It is possible the analyzer I used was not working properly, OR
>that I inaccurately made my measurements OR that the parts I installed
>were off tolerance (listed values: C17=270pf, RFC5=2.2uH, C18=470pf), etc.

>
>Has anyone else measured the output on their 40-9er's? Theoretically,
>we should all be getting approximately the same results.

>
> [Alan Kaul, W6RCL] kaul@netcom.com

>
>
>
>
>
>
>
>

Alan,

I looked at the output of my 40-9er (also a Version A board) on an IFR
communications analyzer and found about the same thing you did, the harmonic
is only about 16 dB down on the fundamental.

72/73,

Al Moyle N3KFL

From owner-qrp-l@lehigh.edu Thu Apr 11 23:28:55 1996
From: lhalliday@creo.bc.ca
Subject: [6985] Re: DDS question and where to get parts?
Message-ID: <9603118292.AA829257679@mail.creo.bc.ca>

Daniel wrote:

> 1. Where can I get the HARRIS HSP45102 DDS and the CA3338 DAC? How
> much do these cost?

I can't help you on the Harris chip, but Digi-Key stock the CA3338 -
which may or may not be useful for non-North Americans. They currently
want about 20 US dollars for it. Harris's Far East distributor is in
Japan, which may be more useful for you. Can you access their web
site?

> 3. Where can I get info on how to program the DDS?

Get the data sheet. Briefly, you need to compute this number in binary, and submit it (serially, in this case) to the DDS:

desired frequency / (clock frequency / 2**DDS word size)

According to the HSP45102 data sheet, the clock frequency is either 33 or 40 MHz, while the word size is 32 bits. Harris quote 0.009 Hz tuning resolution at 40 MHz, which is the denominator of this number, $40000000 / 2^{32}$.

For the Q2220 chip, the clock frequency is 55 MHz, and the word size is 24 bits, so the denominator is $55000000 / 2^{24}$, or 3.278 Hz. For an AD7008 chip (50 MHz clock, 32 bit phase accumulator) the number is $50000000 / 2^{32}$, or 0.01164 Hz per step.

> 4. Would it help to have a 1:1 PLL strapped to the output of the DDS
> to filter out spurs? How much? Especially if a 12-bit DAC is used,
> will the improvement from a PLL justify the extra complexity
> involved?

Each additional bit of DAC resolution puts the noise down about 6 dBc. Since my interest is over a relatively narrow frequency range (5.0 to 5.5 MHz) I'm using tight filtering - I can easily see the quantization at the filter input on a 20 MHz scope, but the output is pristine. No, I haven't hooked it up to a spectrum analyzer. Yet. :-)

Harris quote -69 dBc for the HSP45102, which is about right for a 12 bit DAC.

> 5. I hear the DDS is a power hog? Just how hungry is this part?

Harris quote 99 mA at 5 volts for the HSP45102 chip; my Qualcomm DDS draws 190 mA from a 12 volt supply. However, this includes the DDS and DAC chips (both of which run quite warm; the DAC is the same CA3338), as well as the microcontroller, the clock oscillator, the LCD display, its controller, and the interface between the microcontroller and DDS.

Laura Halliday VE7LDH
lhalliday@creo.bc.ca
ve7ldh@amsat.org
Locator: CN89mg

"C'est une femme mutine, assez
elegante, grave et legere, ayant le
sens du confort et du plaisir
en tout." - C. Deneuve

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: "Ford, Steve, WB8IMY" <sford@arrl.org>
Subject: [6977] Re: HW-8 parts
Message-ID: <316D47CC@arrl.org>

Thanks, Bernard, (and everyone else) for information on the HW-8 tuning capacitor. With part number in hand, I called Heath and verified that they indeed no longer stocked it. Interestingly, the Heath clerk referred me to a "salvage dealer" called "Spectrum Electronics" (tel 616-742-0613). Apparently they also stock Heathkit parts.

Unfortunately, they also did not have the part on hand. In fact, the person at Spectrum said they were out of "all parts whose numbers begin with '26'."

73 . . . Steve, WB8IMY

From: Bernard Seront
Subject: Re: HW-8 parts
From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Subject: Re: HW-8 parts
Message-id: <2.2.32.19960411151756.007366f8@seism1.ess.sunysb.edu>

In case nobody was faster than me, here you are:

VFO main tuning cap, C302a/C302b, part # 26-152.

Let us know if heathkit can still provide it.

Bernard, KB2TGH.

<<>><>> Bernard Seront
| | e-mail: seront@seism1.ess.sunysb.edu
| (o)(o) http://rock.ess.sunysb.edu:8080/
| _) addr: Department of Earth and Space Sciences
| ,___| State University of New-York at Stony Brook
| ___/ STONY BROOK, NY, 11794-2100, USA
/ _ \ phone: (516)632-8302 fax: (516)632-8240

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Stan Cooper <71154.331@compuserve.com>
Subject: [6964] Re: NorCal
Message-ID: <960411142748_71154.331_DHB70-1@CompuServe.COM>

Hi Art,

To join NorCal, send your name, call, and address to Jim Cates, WA6GER, 3241 Eastwood Road, Sacramento, CA 95821. There is no charge to join NorCal QRP Club.

To join NorCal AND receive "QRPP", the NorCal quarterly journal, the rate is \$10.00 per year for US residents, \$15.00 per year for Canada, and \$20.00 per year for DX. These fees (in US funds only) should be sent to Jim Cates at the above address, and checks or money orders should be made out to Jim Cates, NOT NorCal.

It's a great club, and Doug Hendricks does a fantastic job with QRPP.

72,
Stan K4DRD

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: "David D. Meacham" <ddm@datatamers.com>
Subject: [6990] Re: NorCal
Message-ID: <Pine.LNX.3.91.960411154337.29130C-100000@dt1.datatamers.com>

Art,
Just send \$10.00 to Jim Cates, 3241 Eastwood Rd., Sacramento, CA 95821 with your check made out to JIM CATES, NOT NorCal. This pays for the quarterly newsletter and says you want to join.
72, Dave, W6EMD

On Thu, 11 Apr 1996, Arthur Moe wrote:

> I would like to join NorCal could someone please send info.
>
> Thanks
> 73s
> art
>
> ***
>
>

> AT THE END OF THE OREGON TRAIL
> Arthur Moe
> A.R.S. KB7WW
> QTH: Oregon City, Or.
>
>
>

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: JCoote@aol.com
Subject: [6968] Re: NorCal 40A / Antenna Tuner ?
Message-ID: <960411112002_511127652@mail02.mail.aol.com>

In a message dated 96-04-10 13:41:11 EDT, mart@bga.com (Marti Sawyer) writes:

(Snip)

>Do I really need to worry about a
>tuner if it's a properly measured dipole? If I do need a tuner or power
>meter to check SWR does anyone have suggestions about how to built these
>into the rig?

I swear by tuners... for allband random-wire, longwire or center-fed antennas using a balanced line...

But you probably won't need a tuner for a single-freq antenna with coax feed such as a dipole, in fact a tuner will not add anything except weight and bulk.

Some hams mistakenly use a tuner in coax to "forcefeed" the wrong frequency down the coax in to the antenna (e.g. 7 MHz into a 28 MHz dipole), then they marvel at their low VSWR (at the radio) and the fact that they made a few local contacts :-)

If SWR is below 2:1 on the coax (11%reflected) or 3:1 (25% reflected) you may wish to protect the transmitter with a tuner in the coax, but not much more VSWR than that. If SWR is higher, fix or change the antenna! A well-made dipole with coax feed, cut for the CW section of 40 will probably stay well under SWR 2:1 in almost all field setups.

If you had a multibander radio- Heath HW-9, OHR-400, QRP Plus, (etc) then I would suggest a tuner and a single allband center- or end-fed antenna. If you didn't use a tuner and single wideband antenna then you would have to carry all of those separate dipoles, or traps, or multiband "fan" dipoles; rolls of coax, etc.

Now, if you did want a VSWR meter for a tuner, I like the meter that was in SPRAT several years ago. Instead of resistors (bridge) or having to put a huge PC board in your QRP rig, this project used a few toroids instead... no special coax stubs or lines to build. The tuner RF portion could be made from a couple 360 PF "broadcast" caps and switched inductor in "pi" or "T" configuration. If you use SSB or go much over 5 watts, give up the 360 pf broadcast caps and use ones with wider spacing.

73, Jay
WB6AAM

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: JCoote@aol.com
Subject: [6982] Re: Powerline interference
Message-ID: <960411155035_269544160@mail02.mail.aol.com>

In a message dated 96-04-11 07:52:04 EDT, cjsterl@ix.netcom.com (Craig J. Sterling) writes:

(Snip)

>I have been experiencing horrible line noise at my QTH for some time
>now. My noise blanker on my "big rig" handles the problem well, but
>since operating QRP rigs without noise blanking circuits, the noise has
>driven me wild! In the rain the noise went away, so it was obvious
>there was something amiss. Took out the trusty Sony all-band and it was
>all over the neighborhood. A line-man gave me Mike's name and number
>and after finally getting him out to the QTH, identified the problem
>poles and fixed it! Now.....NO NOISE!

Five years ago, I tried working with my Dept Water & Power (serves Los Angeles) on the same problem. Someone showed up with a broad spectrum receiver, went around to the poles in my neighborhood. My experience with utility companies and their line noise is not as productive- The response in a nutshell was: "Yep, there's some noise here, but that's normal...there's more noise as you go lower in frequency... can you use VHF?" Also, lines from another utility (Edison) run nearby and the DWP rep was conveniently able to place the blame on those lines (though my handheld HF receiver told me a different story). The big kiss-off. I guess the DWP engineer must have wanted to get out of the office, the weather was nice that morning. It's been a few years, maybe I'll document the problem again, report it and invoke the name of the Public Utilities Commission.

73, Jay
WB6AA(zzzzzzzzzttt)M

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Mike Robinson <miker@cc.com>
Subject: [6969] Re: QRP-ARCI - Do you belong?
Message-ID: <9604111520.AA21045@voder.nsc.com>

Why am I not a member of ARCI?

The best way to support the Amateur Service
and the QRP hobby is to: USE THE FREQUENCIES!

By using the frequencies we constantly demonstrate
the need for the frequencies and our competence
to use them, and the world's need for us to be
on them.

Joining a QRP club is fun and interesting but
has little to do with using the frequencies.

Joining EVERY QRP club is only slightly more
fun and interesting and still has little to do
with using the frequencies.

Different tack:

>From this list alone I have read nothing but
complaints about ARCI.

- Membership requests go unanswered.
- The publication is hard to come by.

I KNOW it's a non-profit, all volunteer organization.
However, if you volunteer to run a lemonade stand,
you are saying you're going to be there to serve lemonade.

AND, I will NOT feel obligated or guilty because YOU volunteer.

BTW, I'm VP of our local radio club, and President of our
Toastmasters club.

Now...everyone take a deep breath...
...while I climb into my asbestos suit...ok...I'm ready.

=====
7.3 de Michael AA0UB miker@cc.com michael@frii.com
 http://www.frii.com/~michael
 QRP-L #126 Norcal #857 CQC #180
=====

From owner-qrp-l@lehigh.edu Thu Apr 11 23:28:55 1996
From: Jim Lowman <jlowman@iepsnet.com>
Subject: [6971] Re: QRP-ARCI - Do you belong?
Message-ID: <08471345302520@iepsnet.com>

At 09:07 AM 4/11/96 MDT, you wrote:

>>From this list alone I have read nothing but
>complaints about ARCI.
>
> -- Membership requests go unanswered.
> -- The publication is hard to come by.

I mailed checks to ARCI and seven other QRP clubs on February 15th. ARCI was the last one to acknowledge my application and, as of last weekend, had not even cashed my check. In fact, the only acknowledgement of any sort was the latest copy of "The Quarterly," a fine publication. The other clubs sent membership certificates, welcome letters and other materials.

>I KNOW it's a non-profit, all volunteer organization.
>However, if you volunteer to run a lemonade stand,
>you are saying you're going to be there to serve lemonade.

Being a volunteer-run organization is no excuse. All of us who hold office or otherwise help out at clubs are volunteers.

Your comments are dead on!

73 de Jim - KF6CR

From owner-qrp-l@lehigh.edu Thu Apr 11 23:28:55 1996

From: Robert Williams <rwill@seminole.saccw.cc.ar.us>
Subject: [6950] Re: QRP-L digest 325
Message-ID: <Pine.LNX.3.91.960410232929.11580B-1000000@seminole.saccw.cc.ar.us>

Well, as a VCO microcontroller, my vote is in for the Motorola MCHC11 series. Why? Well, It has onboard RAM, ROM, and EEPROM, can be currently bought for \$2.50 in small quantity (surplus) and also has other cool features: eight A/D input lines, two serial ports where one is an RS232 and can be used to control the chip from any RS-232 terminal (needs a MAX232 level shifter) via a three wire hookup. The chip also has scads of timers and other cool features and runs down at the 3 volt range... it is a CMOS chip. It even has EEPROM and a EEPROM burner (providing the programming voltage) all inside the chip. Documentation is free from Motorola.

Just my two cents worth.....

Robert S. Williams, MD
KD4ZPH

From owner-qrp-l@lehigh.edu Thu Apr 11 23:28:55 1996
From: Stan Skelton <:sskelton@cln.etc.bc.ca>
Subject: [6983] Re: Slipping keys, answers
Message-ID: <Pine.3.89.9604111234.A3673-0100000@sparky>

You can get the stuff from any RV dealer for about 35cents per sq. ft. It's used for setting dishes on in trailers so they won't slip on to the floor, I use it under my key and it works great (and only costs pennies) TtFn....Stan T.M. VE7 SKT QRP-L #34

From owner-qrp-l@lehigh.edu Thu Apr 11 23:28:55 1996
From: Joe Marrah <jmarrah@grfn.org>
Subject: [6960] Re: upgrade
Message-ID: <Pine.SOL.3.91.960411092321.12213A@freenet.grfn.org>

Congratulations Chris!

Joe

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [6966] Re: VERTICAL WIND-LOAD
Message-ID: <Pine.SUN.3.90.960411072623.6023A-100000@vortex.sage.dri.edu>

Hi Dave,

I guy all my verticles with bailing twine. It is easy to
get if anyone around you grows hay and it will last
a few years.

I really can't say how much bending is OK, but when it goes
till it breaks, it's too late to guy!

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17....ARRL....NorCal #330.....NRA LIFE.....

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [6957] Re: VXO Research
Message-ID: <960411081752.23ed8e5a@carib.vf.mmc.com>

Bill, you wrote, in part:

>The question that always comes to mind is how does one tell when the crystal
>is no longer in control and the VXO becomes an LC oscillator instead? I
>suspect there may be a sudden jump in frequency when that happens but I'm
>not sure. Would anybody care to enlighten me on this?

Yes, you can usually tell that the crystal is in longer in control because of
a sudden jump in frequency. I like to listen to what's going on while I'm
diddling with oscillators with a cw receiver. Helps you detect sudden
changes, etc. Another clue is that the oscillator becomes very unstable and
often exhibits definite hysteresis in tuning.

BTW, I'm a firm believer in *listening* to what's going on. Saved the bacon a
couple of times at work. Once an emi (electromagnetic interference)
measurement crew tried to tell me that a powered down ac generator was causing

strong emissions at about 20 kHz. I said "nuts!" and convinced them to turn on the bfo (gee what's that?) on their emi receiver. Seems there was a strong carrier going didly-diddly on 21.4 kHz. Reference Data for Radio Engineers showed that NSS in Annapolis was on 21.4 kHz and our loop antenna peaked in that direction. Case solved!

Anyway that's a digression. More to come on VXOs as time permits. And Bill, the biblio's in the (e-) mail.

72/73,

Joe E., N2CX

work: jeverhart@cayman.vf.mmc.com
home: n2cx@voicenet.com

From owner-qrp-1@lehigh.edu Thu Apr 11 23:28:55 1996
From: Dan Halbert <halbert@BBN.COM>
Subject: [6963] Re: [6913] Who requested Loop ant info?
Message-ID: <199604111419.KAA10822@halite.bbn.com.bbn.com>

There is a simple small loop described in the May 1994 QST. I have a message saved somewhere from someone who tried it and said to try to make the inside loop 25" instead of 20" - it worked better for him (this will be clear if you look at the article).

Dan, KB1RT